

SRNT

Schreiber, David

114952

**From:** Steadman, David (AU1652)  
**Sent:** Friday, February 20, 2004 1:04 PM  
**To:** Schreiber, David  
**Subject:** 10/089,211 sequence alignment request

NAME: David Steadman  
AU: 1652  
Date: 02/20/04  
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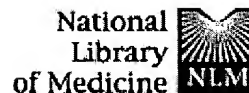
**Mr. Schreiber, please align the following sequences:**

SEQ ID NO:17 (nucleic acid) with SEQ ID NO:18 (polypeptide)

*Please save results to diskette.*

Thank you very much.

David J. Steadman, Ph.D.  
Patent Examiner  
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Jan 29 2004 15:06:34

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## IUBMB Enzyme Nomenclature

**EC 3.2.1.113****Common name:** mannosyl-oligosaccharide 1,2- $\alpha$ -mannosidase**Reaction:** Hydrolysis of the terminal 1,2-linked  $\alpha$ -D-mannose residues in the oligo-mannose oligosaccharide  $\text{Man}_9(\text{GlcNAc})_2$ **Other name(s):** mannosidase 1A; mannosidase 1B; 1,2- $\alpha$ -mannosidase; exo- $\alpha$ -1,2-mannanase; mannose-9 processing  $\alpha$ -mannosidase; glycoprotein processing mannosidase I; mannosidase I; Man9-mannosidase**Systematic name:** 1,2- $\alpha$ -mannosyl-oligosaccharide  $\alpha$ -D-mannohydrolase**Comments:** Involved in the synthesis of glycoproteins.**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9068-25-1**References:**

1. Tabas, I. and Kornfeld, S. Purification and characterization of a rat liver Golgi  $\alpha$ -mannosidase capable of processing asparagine-linked oligosaccharides. *J. Biol. Chem.* 254 (1979) 11655-11663. [Medline UI: [80049801](#)]

2. Tulsiani, D.R.P., Hubbard, S.C., Robbins, P.W. and Touster, O.  $\alpha$ -D-Mannosidases of rat liver Golgi membranes. Mannosidase II is the  $\text{GlcNAcMAN}_5$ -cleaving enzyme in glycoprotein biosynthesis and mannosidases Ia and IB are the enzymes converting  $\text{Man}_9$  precursors to  $\text{Man}_5$  intermediates. *J. Biol. Chem.* 257 (1982) 3660-3668. [Medline UI: [82142537](#)]

[EC 3.2.1.113 created 1986]

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